

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS PO Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/552,024	10/03/2005	Prasun K Chakravarty	21374YP	6885	
210 MERCK AND	7590 05/20/200 OCO INC	8	EXAMINER		
P O BOX 2000			CHUNG, SUSANNAH LEE		
RAHWAY, NJ 07065-0907			ART UNIT	PAPER NUMBER	
			1626	•	
			MAIL DATE	DELIVERY MODE	
			05/20/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/552.024 CHAKRAVARTY ET AL. Office Action Summary

	Office Action Gammary	Examiner	Art Unit					
		SUSANNAH CHUNG	1626					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
Period fo	or Reply							
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY DIFFERENCE OF THE MEMORY AND THE MALING DO HEVER IS LONGER, FROM THE MALING DO HOUSENED OF THE MEMORY OF THE	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim- till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	N. nely filed the mailing date of this o D (35 U.S.C. § 133).					
Status								
1) 又	Responsive to communication(s) filed on 25 February 2008.							
		action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
D:	to a control of Olerhan							
	ion of Claims							
	Claim(s) <u>1-44</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
	Claim(s) is/are rejected.							
	Claim(s)is/are objected to. Claim(s) 1-44 are subject to restriction and/or election requirement.							
8)[2]	Claim(s) 1-44 are subject to restriction and/or e	election requirement.						
Applicati	ion Papers							
9)	The specification is objected to by the Examine	r.						
	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 Cl	FR 1.121(d).				
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P7	ΓO-152.				
Priority I	ınder 35 U.S.C. § 119							
	· ·		(4) (6)					
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(a) or (t).					
a)	 ☐ All b) Some c) None or. Certified copies of the priority documents 	have been received						
	Certified copies of the priority documents Certified copies of the priority documents		on No					
	Copies of the certified copies of the prior	• • • • • • • • • • • • • • • • • • • •		Stane				
	application from the International Bureau	•	a in this reactorial	Olage				
* 5	See the attached detailed Office action for a list		d.					
Attachmen	t(s)							

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SE/CS) 5) Notice of Informal Patent Application Paper No(s)/Mail Date ___ 6) Other: U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Office Action Summary Part of Paper No./Mail Date 20080512 Application/Control Number: 10/552,024 Page 2

Art Unit: 1626

DETAILED ACTION

Claims 1-44 are currently pending in the instant application and are subject to the following new lack of unity requirement.

Election/Restrictions

Restriction is required under 35 U.S.C. 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Claims 1-44 are drawn to more than one inventive concept (as defined in PCT Rule 13), and accordingly, a restriction is required according to the provision of PCT Rule 13.2

PCT Rule 13.2 states that the international application shall relate to one invention only or to a group of inventions so linked as to form a general inventive concept (requirement of unity of invention).

PCT Rule 13.2 states that unity of invention referred to in Rule 13.1 shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features that makes a contribution over the prior art.

Group I: Claims 1-31 drawn to compounds of formula (I), (II), or (IV), classified in various subclasses of classes 548. If this group is elected, applicants are requested to elect a single species for search purposes. For example, a compound of formula (I), wherein R1-R7 are hydrogen.

Group II: Claims 32-44 drawn to methods of using the compound of formula (I), (II), (III), or (IV), classified in various subclasses of classes 514. If this group is elected, applicants are requested to elect a single disorder for search purposes. For example, HIV (claim 37).

Art Unit: 1626

In the instant case, upon election of a single compound, the Office will review the claims and disclosure to determine the scope of the independent invention encompassing the elected compound (compounds which are so similar thereto as to be within the same inventive concept and reduction to practice). The scope of an independent invention will encompass all compounds within the scope of the claim, which fall into the same class and subclass as the elected compound, but may also include additional compounds, which fall in related subclasses. Examination will then proceed on the elected compound AND the entire scope of the invention encompassing the elected compound as defined by common classification. A clear statement of the examined invention, defined by those class(es) and subclass(es) will be set forth in the first action on the merits. Note that the restriction requirement will not be made final until such time as applicant is informed of the full scope of compounds along with (if appropriate) the process of using or making said compound under examination.

The claims herein lack unity of invention under PCT rule 13.1 and 13.2 since, under 37 CFR 1.475(a) the compounds defined in the claims lack a significant structural element qualifying as the special technical feature that defines a contribution over the prior art. The technical feature of the instant claim(s) is pyrazole ring, which may be substituted with an aryl or heteroaryl group, which does not define a contribution over the prior art (as can be seen by Xiang et al., U.S. Pat. Num. 6,100,259, formula (I) of Claim 1, column 15), which corresponds to applicant's instantly claimed compounds.

Accordingly, unity of invention is considered to be lacking and restriction of the invention in accordance with the rules of unity of invention is considered to be proper.

Additionally, the vastness of the claimed subject matter, and the complications in understanding

Application/Control Number: 10/552,024

Art Unit: 1626

the claimed subject matter imposes a serious burden on any examination of the claimed subject matter.

Rationale Establishing Patentable Distinctiveness Within Each Group

Each Group listed above is directed to or involves the use of compounds which are recognized in the art as being distinct from one another because of their diverse chemical structure, their different chemical properties, modes of action, different effects and reactive conditions (MPEP 806.04, MPEP 808.01). Additionally, the level of skill in the art is not such that one invention would be obvious over the other invention (Group), i.e. they are patentable over each other. Chemical structures, which are similar, are presumed to function similarly, whereas chemical structures that are not similar are not presumed to function similarly. The presumption even for similar chemical structures though is not irrebuttable, but may be overcome by scientific reasoning or evidence showing that the structure of the prior art would not have been expected to function as the structure of the claimed invention. Note that in accordance with the holding of Application of Papesch, 50 CCPA 1084, 315 F.2d 381, 137 USPQ 43 (CCPA 1963) and In re Lalu, 223 USPQ 1257 (Fed. Cir. 1984), chemical structures are patentably distinct where the structures are either not structurally similar, or the prior art fails to suggest a function of a claimed compound would have been expected from a similar structure.

The above groups represent general areas wherein the inventions are independent and distinct, each from the other because of the following reasons:

Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above <u>and</u> there would be a Art Unit: 1626

serious search and examination burden if restriction were not required because one or more of the following reasons apply:

- (a) the inventions have acquired a separate status in the art in view of their different classification;
- (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
- (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
- (d) the prior art applicable to one invention would not likely be applicable to another invention;
- (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include

(i) an election of a invention to be examined even though the requirement may be traversed (37

CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

Art Unit: 1626

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

In addition, because of the plethora of classes and subclasses in each of the Inventions, a serious burden is imposed on the examiner to perform a complete search of the defined areas.

Therefore, because of the reasons given above, the restriction set forth is proper and not to restrict would impose a serious burden in the examination of this application.

Advisory of Rejoinder

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102.

Application/Control Number: 10/552,024

Art Unit: 1626

103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained.

Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Telephone Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susannah Chung whose telephone number is (571) 272-6098. The examiner can normally be reached on M-F, 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph McKane can be reached on (571) 272-0699. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/552,024 Page 8

Art Unit: 1626

/REI-TSANG SHIAO /

Primary Examiner, Art Unit 1626

Susannah Chung, 5/12/2008